

Abstract

The ball nose end mill cutter according to the present invention includes a cutting face 12 providing a plurality of alternating crest 52 and root 54 profiles arranged with respect to each other to further provide a serrated cutting edge 16 on the cutter. The serrations and serrated cutting edge positioned on a cutter insert 10 for removable affixation to a tool body 20 having a centerline of rotation 28, and including an insert body 18 having a contact surface 30 for mating engagement with a mounting surface of the tool body. The ball nose end mill insert further including a curved cutting face surface 12, and a plurality of face serrations formed along the curved cutting face surface, the face serrations having face crests 116 and face roots 216 forming a serrated curved cutting edge 16.